

Minería de datos y Patrones

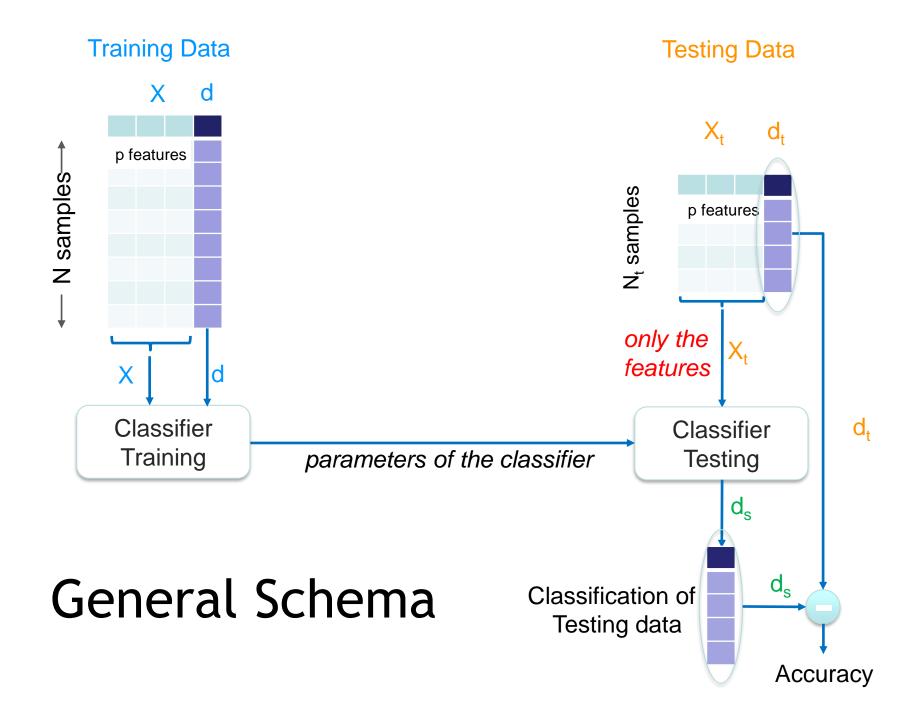
Version 2024-I

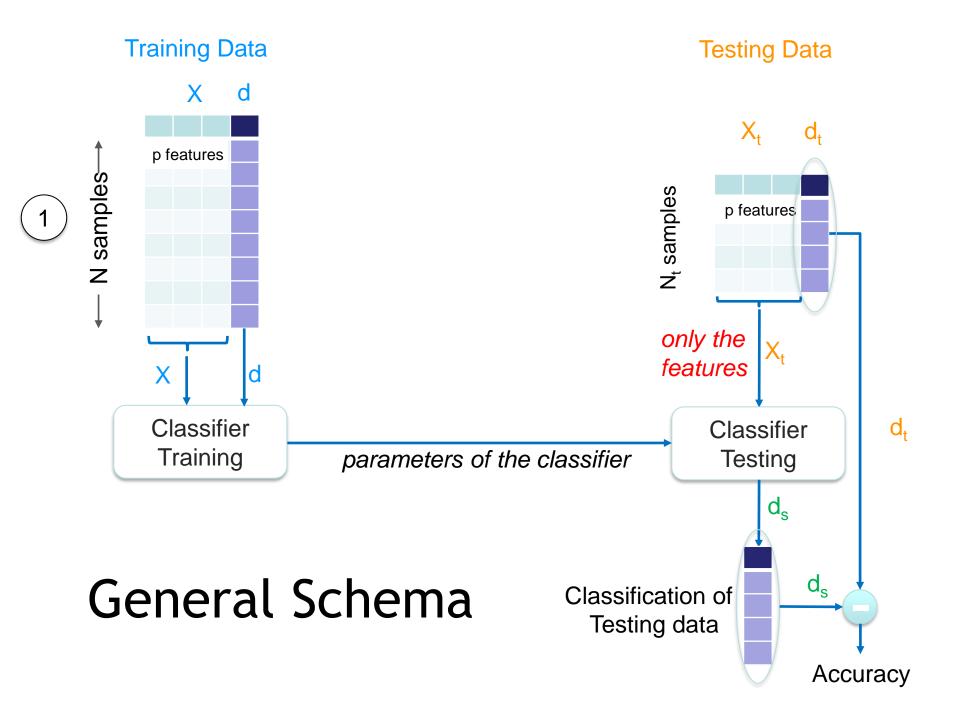
Classification - Intro

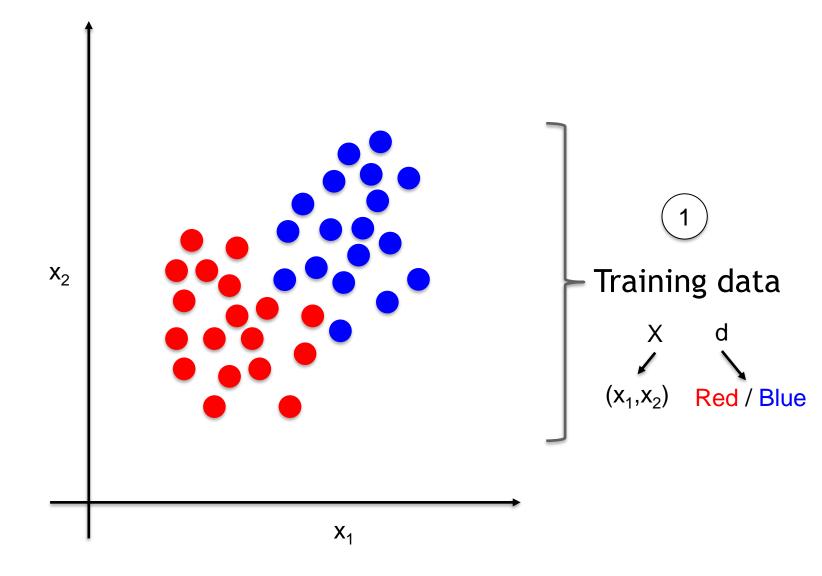
[Capítulo 4]

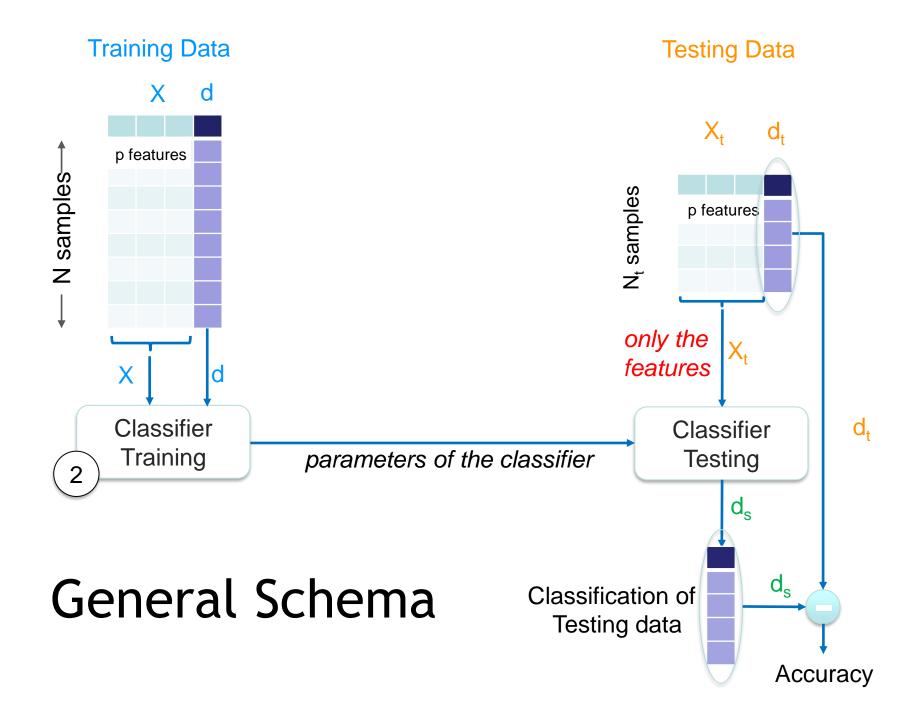
Dr. José Ramón Iglesias

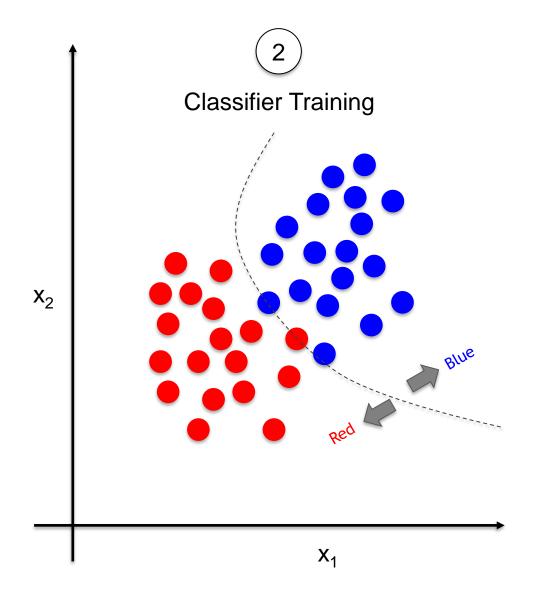
DSP-ASIC BUILDER GROUP Director Semillero TRIAC Ingenieria Electronica Universidad Popular del Cesar

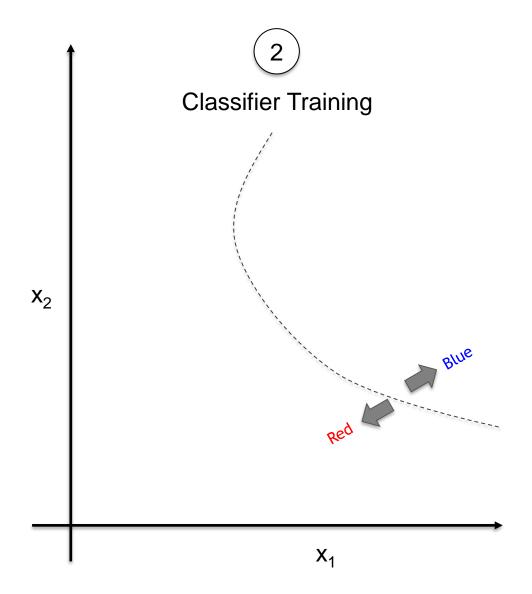


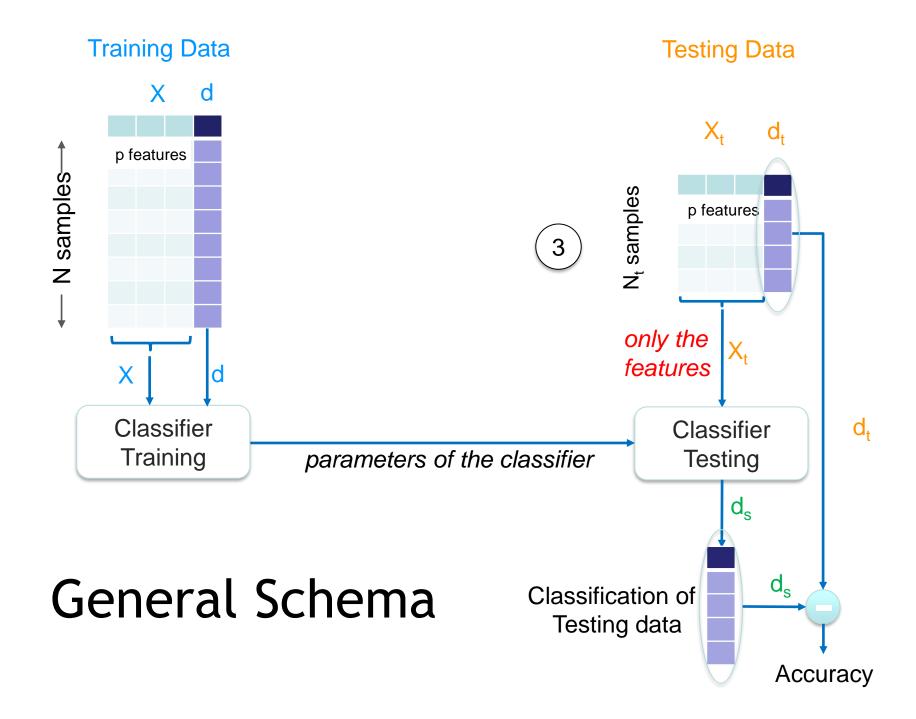


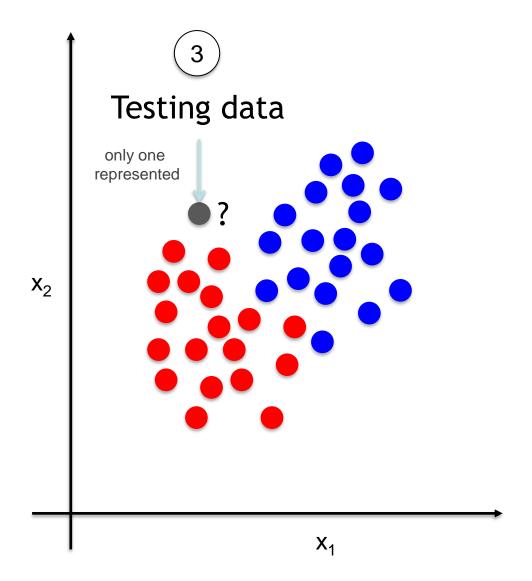


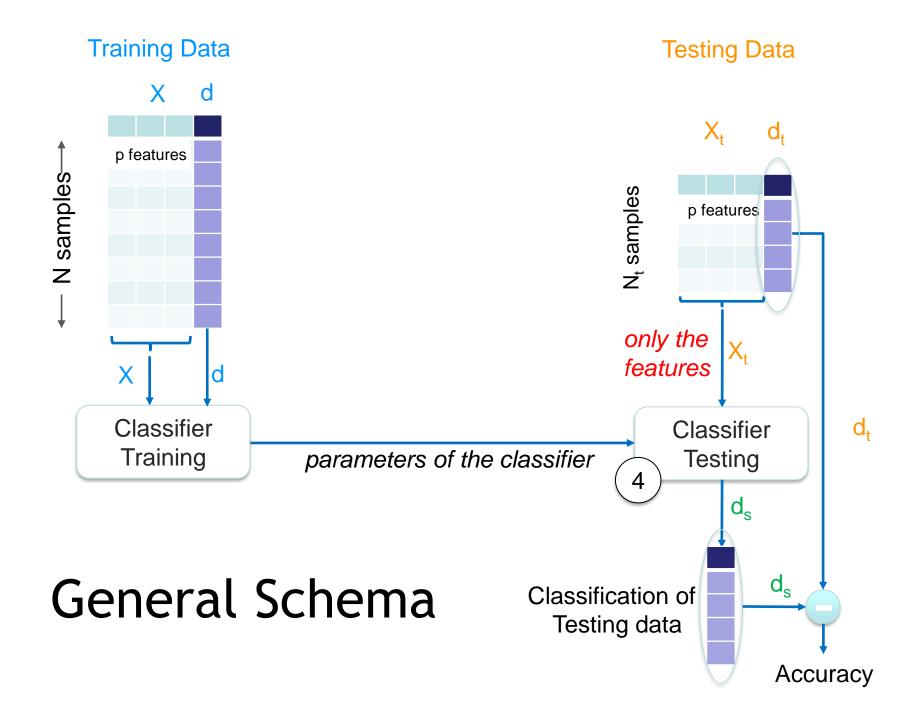


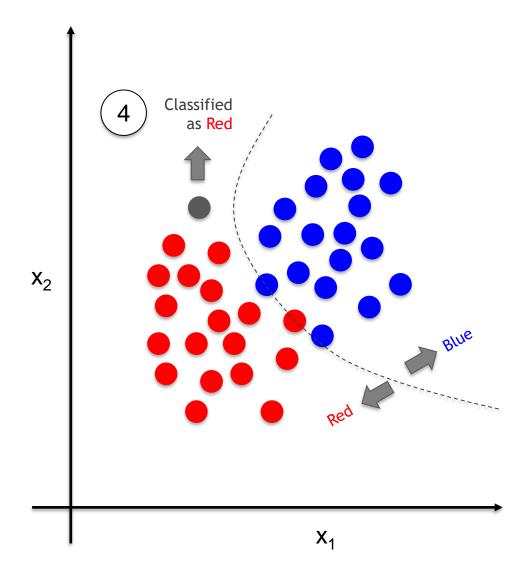


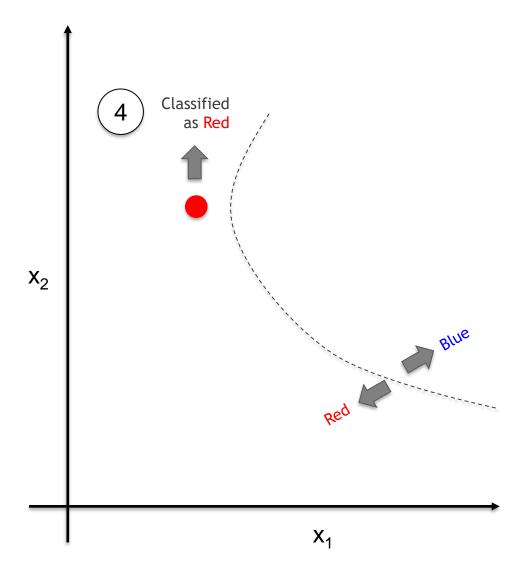


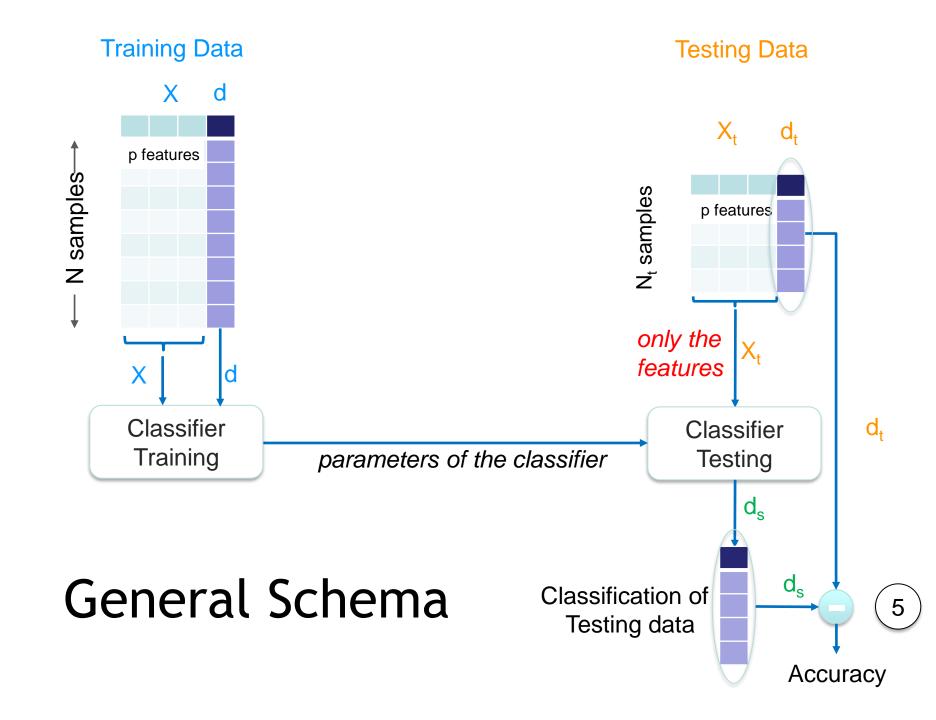


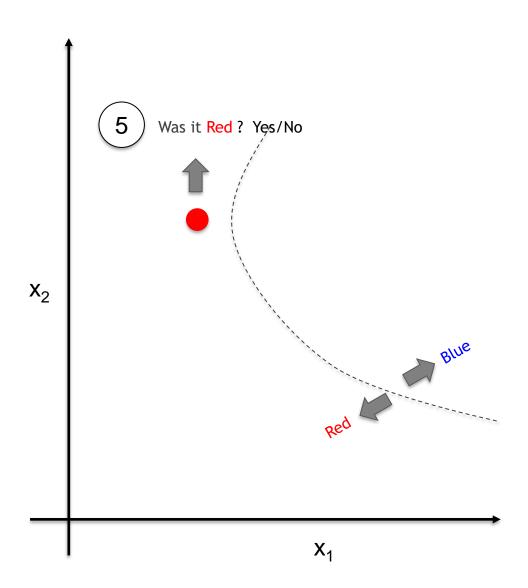


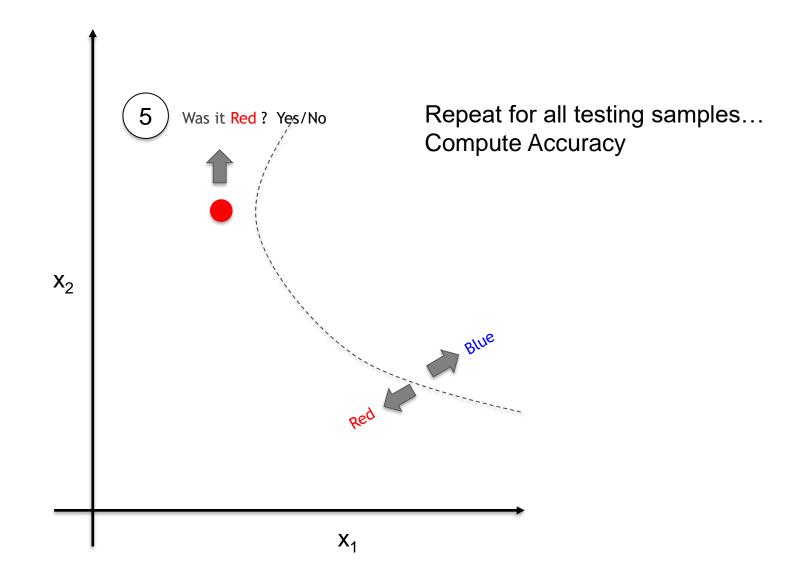


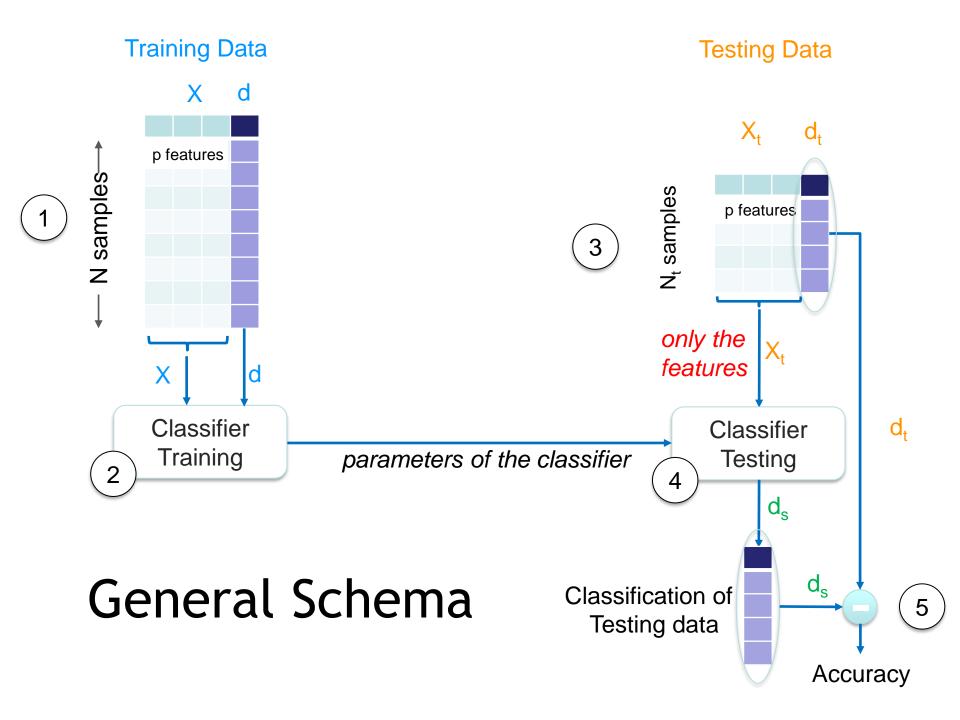


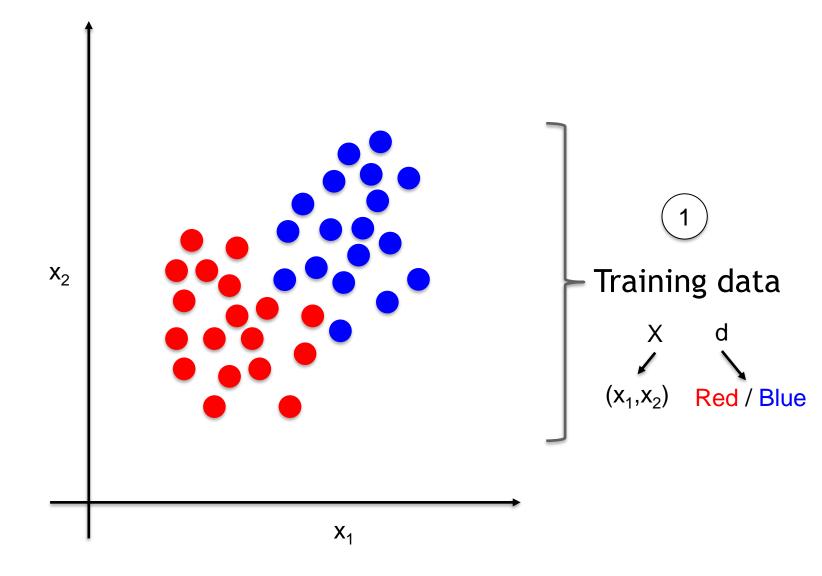


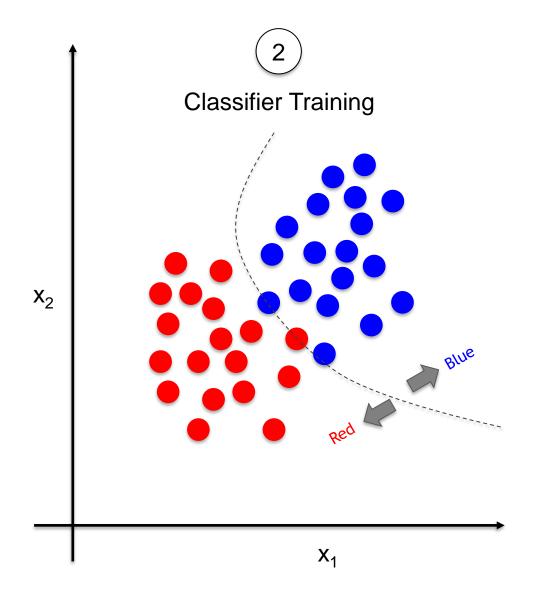


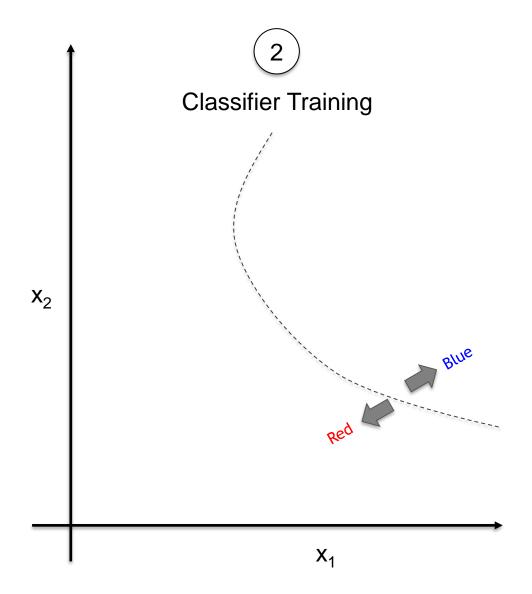


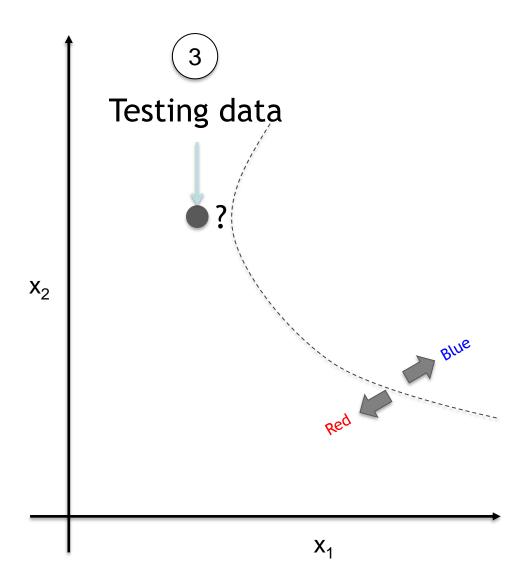


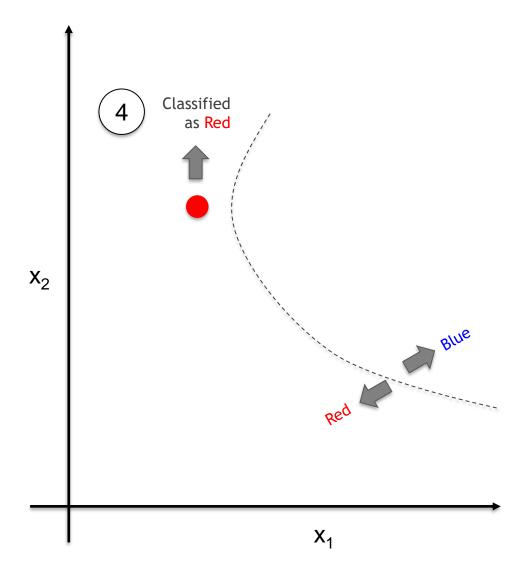


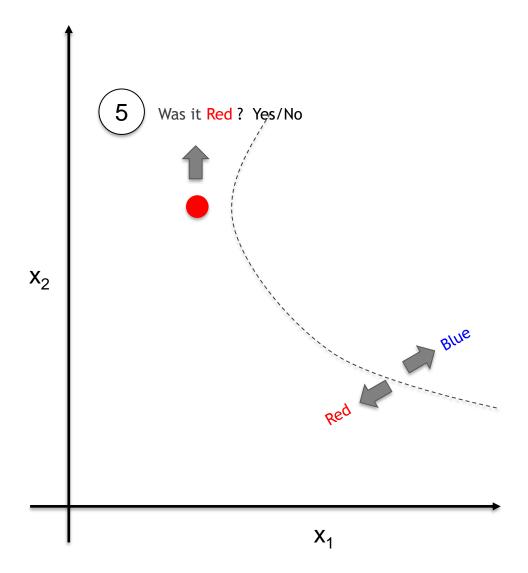


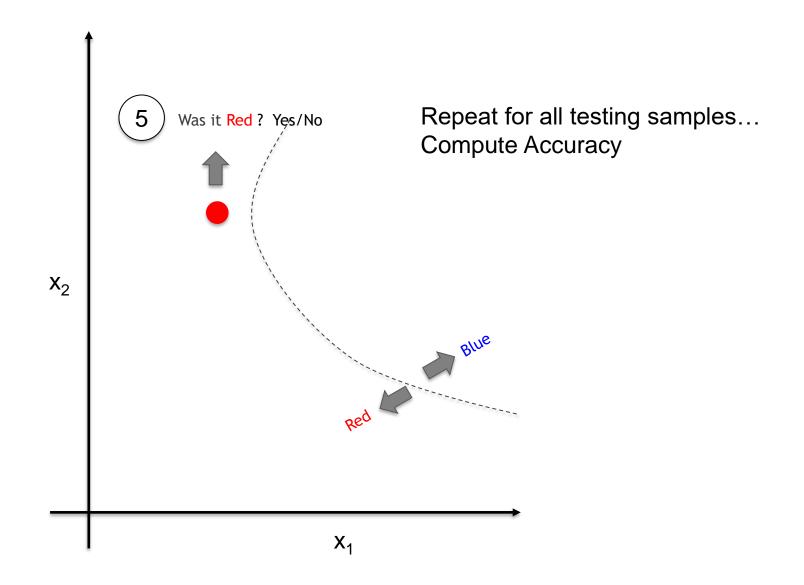


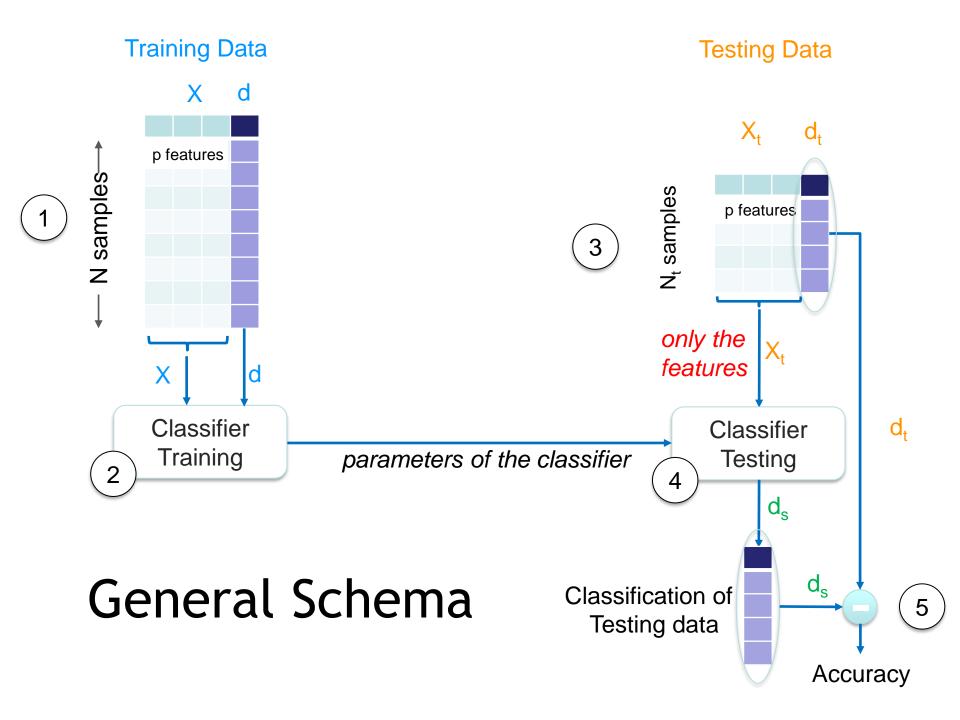












```
Xtrain, ytrain
Libraries
                         Xtest, ytest
STEPS:
        (X,d) and (X_t,d_t) \leftarrow read training and testing data
0.
1.
        Definition
                         ← Classifier Definition
2.
        TrainedParameters ← Training(X,d,Definition)
3.
                          ← Testing(X, TrainedParameters)
        ds
                          \leftarrow Accuracy(d_s, d_t)
4.
        Accuracy
ypred
            Example for KNN-3
            1. clf = KNeighborsClassifier(n neighbors=3)
            2. clf.fit(Xtrain, ytrain)
            3. ypred = clf.predict(Xtest)
            4. acc = accuracy_score(ypred, ytest)
```